



Garron M. Hobson
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January 25, 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL OF SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: U.S. Patent Application No. 10/526,649 filed 03/03/05
Applicant: David Jensen
Title: **THREE-DIMENSIONAL GRID PANEL**
Group Art Unit: 3635
Attorney Docket No. 21063.PROV.PCT.US

Sir/Madam:

Transmitted herewith for filing and pursuant to 37 C.F.R. §§ 1.56 and 1.97 is a Supplemental Information Disclosure Statement. Enclosed also are the following designated documents, as required under 37 C.F.R. §§ 1.97 and 1.98:

- ☒ Form **PTO/SB/08A AND PTO/SB/08B** list of 48 references submitted for consideration.
- ☐ Legible copies of the listed references or their relevant portions.
- ☒ Legible copies of the listed non-patent documents and foreign documents or their relevant portions are included.
- ☐ Copies of U.S. patents and/or publications are not included pursuant to the Official Gazette Notice, dated Aug. 5, 2003, waiving the requirement of 37 C.F.R. 1.98(a)(2)(i).
- ☒ All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. § 1.98(c)).

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Commissioner for Patents

Page 2

The following are included within the Information Disclosure Statement if applicable and as required under 37 C.F.R. § 1.98:

- ☐ Concise explanation of relevance of each reference not in English and unaccompanied by an English translation.
- ☐ Statement that certain listed references not enclosed are substantially cumulative of an enclosed reference.
- ☐ Statement that certain listed references not enclosed were previously cited by or submitted to the Office in prior application no. _____, filed on _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

In order to secure consideration of the items designated above, one or more of the following, if required, is also enclosed:

- ☐ Statement under 37 C.F.R. § 1.97(e)(1) or (2).
- ☐ Check No. _____, which includes the amount of \$180.00 (amount in § 1.17(p)) constituting the submission fee set forth in 37 C.F.R. § 1.17(p).

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

Respectfully submitted,



Garron M. Hobson
Attorney for Applicant
Registration No. 41,073

THORPE NORTH & WESTERN, LLP
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P.O. Box 1219
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GMH/skp

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PATENT APPLICATION
ATTORNEY DOCKET NO. 21063.PROV.PCT.US

IN THE UNITED STATES PATENT & TRADEMARKS OFFICE

ART UNIT: 3635
EXAMINER:
APPLICANT: David Jensen
SERIAL NO.: 10/526,649
FILED: 3/3/2005
CONFRM. NO.: 5827
FOR: THREE-DIMENSIONAL GRID PANEL

**CERTIFICATE OF MAILING
UNDER 37 C.F.R. § 1.8**DATE OF DEPOSIT: Jan 25, 2006

I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Garron M. Hobson**SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO/SB/08A ~~PTO/SB/08B~~ which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to:

☒ 37 C.F.R. § 1.97 (b)(1) or (3), within three months of the filing date of the application, or before a first office action on the merits, whichever occurs last;

☐ 37 C.F.R. § 1.97 (c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by either 1) a statement in accordance with 37 C.F.R. § 1.97(e), or 2) the fee set forth in § 1.17(p); or

☐ 37 C.F.R. § 1.97 (d), after a Final Office Action or Notice of Allowance, whichever occurs first, but on or before payment of the issue fee, and is accompanied by both 1) a statement in accordance with 37 C.F.R. § 1.97(e), and 2) the fee set forth in § 1.17(p).

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently

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Supplemental Information Disclosure Statement

Application No. 10/526,649

Page 2

aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

☐ A legible copy of each listed U.S. Patent or publication (or relevant portion thereof) which was not previously submitted to, or cited by, the Patent Office is enclosed pursuant to 37 C.F.R. §§ 1.97 and 1.98.

☒ A legible copy of each of the listed non-patent literature and foreign documents or their relevant portions is enclosed.

☐ Copies of cited U.S. patents and/or publications are NOT enclosed pursuant to the Official Gazette Notice, dated Aug. 5, 2003, waiving the requirement of 37 C.F.R. § 1.98(a)(2)(i).

☐ Copies of the references listed in the accompanying Form **PTO/SB/08A** and **PTO/SB/08B** are NOT enclosed because, under 37 C.F.R. § 1.98(d), they were previously cited by or submitted to the Office in application number _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or to credit any overpayment to Deposit Account No. 20-0100.

Dated this 25 day of January, 2006.

Respectfully submitted,



Garron M. Hobson
Attorney for Applicant
Registration No. 41,073

THORPE NORTH & WESTERN, LLP
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Enclosure

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Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet	1	of	1
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Complete if Known

Application Number	10/526,649
Filing Date	03/03/05
First Named Inventor	David Jensen
Art Unit	3635
Examiner Name	
Attorney Docket Number	21063 PROV.PCT.US

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ – Kind Code ⁵ (if known)				
		JP6215695	04/08/87	Japan		

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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				Examiner Name		
Sheet	1	of	6	Attorney Docket Number		21063.PROV.PCT.US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	RC HIBBELER, "Space Trusses" Engineering Mechanics Statics, Chapter 6, Seventh Edition, pgs. 267-270, Prentice-Hall, Englewood Cliffs, New Jersey	
	2	DAS, ALOK et al., "Adaptive Structures for Spacecraft a USAF Perspective" AGARD Conference proceedings 531 Smart Structures for Aircraft and Spacecraft held in Germany, October 1992 pgs. 3-1 to 3-3-13	
	3	WADA, BEN K. et al., "Advances in Adaptive Structures at Jet Propulsion Laboratory" AGARD Conference proceedings 531 Smart Structures for Aircraft and Spacecraft held in Germany, October 1992, Applied Mechanics Technologies Section, pgs 28-1 to 28-13, Pasadena, California, USA	
	4	TROIDL H. et al., "Dynamic Tests on the NASA Langley CSI Evolutionary Model" AGARD Conference proceedings 531 Smart Structures for Aircraft and Spacecraft held in Germany, October 1992, pgs. 4-1 to 4-9.	
	5	CRAWLEY, EDWARD et al., "Intelligent Structures a Technology Overview and Assessment": AGARD Conference proceedings 531 Smart Structures for Aircraft and Spacecraft held in Germany, October 1992, Space Engineering Research Center, MIT, pgs. 6-1 to 6-16, Cambridge, Massachusetts, USA,	
	6	BETTI, F. et al., "On Possible Applications of Smart Structures to Control of Space Systems" AGARD Conference proceedings 531 Smart Structures for Aircraft and Spacecraft held in Germany, October 1992, pgs. 26-1 to 26-14.	
	7	SIRLIN, S.W. et al., "Sizing of Active Piezoelectric Struts for Vibration Suppression on a Space-Based Interferometer" <i>Jet Propulsion Laboratory California Institute of Technology</i> , Pasadena, California pgs. 47-63, presented at the First Joint US/Japan Conference on Adaptive Structures November 13-15, 1990.	
	8	MOBREM, M. et al., "Control Design of Space Station Mobile Transporter with Multiple Constraints" <i>Astro Aerospace Corporation</i> , Carpinteria, California pgs. 87-116 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	9	MUROTSU, Y. et al., "Optimal Configuration Control of an Intelligent Truss Structure" <i>Department of Aeronautical Engineering, College of Engineering, University of Osaka Prefecture</i> , Sakai, Osaka Japan, pgs. 157-175 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	

Examiner Signature		Date Considered	
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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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	10	BRONOWICKI, A.J. et al., "ACESA Structural Control System Design" <i>TRW Space and Technology Group</i> , Redondo Beach, California, pgs. 373-401 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	11	SEGUCHI, Y., "Criteria-Oriented Configuration Control of Adaptive Structure and its Modular Neural Network Representation" <i>Department of Mechanical Engineering</i> , Osaka University Toyonaka, Osaka Japan, pgs. 402-421 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	12	TANAKA, M. et al., "On Damping Enhancement of LSS Coupled with the Antenna Pointing System" <i>Toshiba Corporation</i> , Kawasaki, Japan, pgs. 510-524 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	13	FANSON, J.L. et al., "Damping and Structural Control of the JPL Phase 0 Testbed Structure" <i>Jet Propulsion Laboratory California Institute of Technology</i> , Pasadena, California pgs. 510-524 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	14	DAS, SK et al., "A Mathematical Basis for the Design and Design Optimization of Adaptive Trusses in Precision Control" <i>Duke University</i> , Durham North Carolina, pgs. 660-690 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	15	TANAKA, M. et al., "Kinematics of Adaptive Truss Permitting Modal Offset (configuration and workspace reach), <i>Osaka university, Department of Mechanical engineering</i> , Osaka, Japan, pgs. 691-714, presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	16	HUGHES, P.C., "Trussarm - A Variable-Geometry-Truss Manipulator" <i>University of Toronto, Institute for Aerospace Studies</i> , Toronto, Canada, pgs. 715-725 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	17	CHEN, G.S. et al., "On an Adaptive Truss Manipulator Space Crane Concept" <i>Jet Propulsion Laboratory, California Institute of Technology</i> , Pasadena, California, pgs. 726-742, presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	18	MUROTSU, Y. et al., "Some Approaches to the Optimal Adaptive Geometries of Intelligent Truss Structures" <i>University of Osaka Prefectures</i> , Sakai, Osaka, Japan, pgs. 743-771, presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	19	TIDWELL, PH et al., "Kinematic Analysis of Generalized Adaptive Trusses" <i>Mechanical Engineering Department, Virginia Polytechnic Institute and State University</i> , Blacksburg, Virginia, pgs. 772-791 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	

Examiner Signature		Date Considered	
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NON PATENT LITERATURE DOCUMENTS

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	20	MATSUZAKI, Y. et al., "Application of Fuzzy Control to Tracking for Docking Operation of An Adaptive Space Structure" <i>Department of Aerospace Engineering, Nagoya university, Chikusa, Nagoya Japan</i> , pgs. 792-806 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	21	JENSEN, D. W. et al., "Dynamic Characterization of a Composite Lattice Structure with an Integrated Fiber-Optic Strain Sensor" <i>The Pennsylvania State University, Department of Aerospace Engineering, University Park, Pennsylvania</i> , pgs. 828-845, presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	22	ALLEN, J. J. et al., "The Sandia Structural Control Experiments" <i>Sandia National Laboratories, Albuquerque, New Mexico</i> , pgs. 928-951 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	23	SWANSON A. D. et al., "Zero-Gravity Dynamics of Space Structures in Parabolic Aircraft Flight" <i>flight dynamics laboratory, air force Wright research and development center, Wright-Patterson Air Force Base, Ohio</i> , pgs. 952-965 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	24	LAWRENCE, C.R. et al., "Active Member Vibration Control Experiment in a KC-135 Reduced Gravity Environment" <i>Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California</i> , pgs. 987-1003 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	25	MACLEAN, B.J. et al., "Development of a Shape Memory Material Actuator for Adaptive Truss Applications" <i>Materials and Structures Group Research & Technology, Martin Marietta Space Systems Denver, Colorado</i> , pgs. 1038-1055 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	26	KUO, C.P. et al., "Optimal Actuator Placement on an Active Reflector Using a Modified Simulated Annealing Technique" <i>Applied Mechanics Technologies Section, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California</i> , pgs. 1056-1068 presented at the First Joint US/ Japan Conference on Adaptive Structures November 13-15, 1990.	
	27	MIURA, K. et al., "Aerospace Research Status on Adaptive Structures in Japan" <i>Institute of Space and Astronautical Sciences, Yoshinodai, Sagami-hara, Japan</i> , pgs. 3-14, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	

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	28	ANDERSON, W.W. et al., "The NASA-LaRC Controls-Structure Interaction Technology Program <i>Guidance and Control Division, NASA</i> , Hampton, Virginia, pgs. 15-31, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
	29	BREITBACH, E. J., "Research Status on Adaptive Structures in Europe" <i>Institute of Aeroelasticity</i> , Goettingen, Germany, pgs. 32-48, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
	30	YOSIDA, K et al., "COSMO-LAB Concept: A Cooperation of Space Robots and Structures" <i>Department of Mechanical Engineering Science, Tokyo Institute of Technology</i> , Tokyo, Japan, pgs. 59-76, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
	31	NATORI, M.C. et al., "Application of Adaptive Structure Concepts to Construction of space Systems in Orbit - Concepts and Formulation" <i>Institute of Space and Astronautical Science</i> Sagamihara, Japan pgs. 77-91, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
	32	MODI, V.J. et al., "Formulation for a Class of Adaptive Structures with Applications" <i>Department of Mechanical Engineering, The University of British Columbia</i> , Vancouver, British Columbia, Canada, pgs. 92-110, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
	33	WADA, B. K. et al., "Application of Adaptive Structures for the Control of Truss Structures" <i>Jet Propulsion Laboratory, California Institute of Technology</i> Pasadena, California, pgs. 123-131, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
	34	LARSON, L. B. et al., "An Experimental 10-Meter Space Truss with Tendon Control" <i>School of Civil and Environmental Engineering, Cornell University</i> Ithaca, New York, pgs. 227-244, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
	35	SHIBUTA, S. et al., "Adaptive Control of Space Truss Structures by Piezoelectric Actuator" <i>National Space Development Agency of Japan Tsukuba Space Center</i> , Ibaraki, Japan, pgs. 245-262, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
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				Application Number	10/526,649
				Filing Date	03/03/05
				First Named Inventor	David Jensen
				Art Unit	3635
				Examiner Name	
Sheet	5	of	6	Attorney Docket Number	21063.PROV.PCT.US

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Examiner Initials*	Cite No. ¹	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	37	TABATA, M. et al., "Shape Adjustment of a Flexible space Antenna Reflector": <i>Mitsubishi Electric Corporation, Center Research Laboratory</i> , Hyogo, Japan, pgs. 393-405, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
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	44	D'ELEUTERIO, G. M. T., "Articulation Dynamics of Variable-Geometry Truss Structures" <i>Institute for Aerospace Studies, University of Toronto</i> , Downsview, Ontario, Canada, pgs. 621-640, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	

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	45	MATSUZAKI, Y. et al., "Application of Fuzzy Control to Computer Simulation of Tracking and Rendezvous Test for Docking of an Adaptive Space Structure" <i>Department of Aerospace Engineering, Nagoya University, Chikusa, Nagoya, Japan</i> , pgs. 641-652, presented at the Second Joint US/ Japan Conference on Adaptive Structures November 12-14, 1991.	
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